

ABSTRACT OF THE DISCLOSURE

A magnetic recording/reproducing apparatus includes a servo head amplifier, including first and second signal processors, comparator circuit, and tape speed controller. The first signal processor processes a first signal read from first servo device into a third signal, and the second signal processor processes a second signal read from second servo device into a fourth signal. The comparator circuit compares the third and fourth signals. If a signal output difference exists, the tape speed controller changes the magnetic tape transport speed, so that a signal is recorded to form a signal track with constant width. Therefore, it is possible to provide a magnetic head capable of stably recording signals to form signal tracks with constant width using servo technology, a magnetic recording apparatus including the magnetic head, and a magnetic recording/reproducing apparatus which can stably record signals to form signal tracks with constant width and restrict variations in reproduction signals.